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ISO 9001:2008
CONSULTANTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/KRIDL/W.No.12/CEMENT/2017-18 Date: 25.07.2017

TEST REPORT ON CEMENT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, BBMP, Bangalore.
NAME OF THE WORK	:	Improvements of RCC drain at Medarahalli main road left side in Ward No.12 Shettyhalli sub division, BBMP, Bangalore.
SAMPLE ID	:	Cement
DATE OF TESTING	:	25.07.2017

The results of the tests conducted on the cement sample are as follows:
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Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	189 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	474 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

AE-12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿಬಿಎಂಪಿ, ರಸ್ತೆ, ರಾಜರಾಜೇಶ್ವರಿನಗರ, ಬೆಂಗಳೂರು

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Job No.: CECTC/BBMP/KRIDL/W.No.12/AGG/GR/2017-18 : 25.07.2017

TEST REPORT ON COARSE AGGREGATES

Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of RCC drain at Medarahalli main road left side in Ward No.12 Shettyhalli sub division, BBMP, Bangalore.

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Date of Testing : 25.07.2017

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.36	95-100	85-100
20	34.64	30-70	0-20
10	12.33	10-35	0-5
4.75	1.54	0-5	-

Remarks : This sample is under Graded specific limits.

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ಪೂರ್ವ ಆವರಣ, ಶಾಂತಿನಗರ ಉಪ
ವಿಭಾಗ ಬೆಂಗಳೂರು ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು.

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Job No.: CECTC/BBMP/KRIDL/W.No.12//Steel//2017-18 Date: 09.08.2017

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of RCC drain at Medarahalli main road left side in Ward No.12 Shettyhalli sub division, BBMP, Bangalore.

Sample Identification : 8mm,10mm,12mm,16mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 09.08.2017

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	541	552	13
2	Fe 500	10	0.62	543	555	15
3	Fe 500	12	0.88	548	564	17.5
4	Fe 500	16	1.59	551	571	18.5

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Job No.: CECTC/BBMP/KRIDL/W.No.12/CUBE/2017-18 26.08.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, BBMP, Bangalore.

Name of the work : Improvements of RCC drain at Medarahalli main road left side in Ward No.12 Shettyhalli sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.07.2017	26.08.2017	8.197	481.5	21.40
2	29.07.2017	26.08.2017	8.256	489.6	21.76
3	29.07.2017	26.08.2017	8.375	494.5	21.98

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Job No.: CECTC/BBMP/KRIDL/W.No.12/CUBE/2017-18 26.08.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, BBMP, Bangalore.

Name of the work : Improvements of RCC drain at Medarahalli main road left side in Ward No.12 Shettyhalli sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.07.2017	26.08.2017	8.276	482.5	21.44
2	29.07.2017	26.08.2017	8.326	495.8	22.04
3	29.07.2017	26.08.2017	8.397	501.7	22.30

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